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Recoveries in 1985 and 1986 and Releases in 1986 of Tagged Fraser River White Sturgeon, *Acipenser Transmontanus*, Together with Data on the Number of Dorsal Scutes and Number of *Cystoopsis Acipenseris* (Nematoda) Present on Some of the Fish Caught in 1986

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RECOVERIES IN 1985 AND 1986 AND RELEASES IN 1986 OF TAGGED FRASER RIVER WHITE STURGEON, ACIPENSER TRANSMONTANUS, TOGETHER WITH DATA ON THE NUMBER OF DORSAL SCUTES AND NUMBER OF CYSTOOPSIS ACIPENSERIS (NEMATODA) PRESENT ON SOME OF THE FISH CAUGHT IN 1986

by

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ABSTRACT

McDonald, T. E., E. D. Lane, F. Dalziel, V. J. Swiatkiewicz, and L. Margolis. 1989. Recoveries in 1985 and 1986 and releases in 1986 of tagged Fraser River white sturgeon, Acipenser transmontanus, together with data on the number of dorsal scutes and number of Cystoopsis acipenseris (Nematoda) present on some of the fish caught in 1986. Can. Data Rep. Fish. Aquat. Sci. 742: 33 p.

This report provides length, weight, and release data on 507 white sturgeon, Acipenser transmontanus Richardson, caught and tagged at several localities in the lower Fraser River from April to November 1986, as well as recovery data for 73 tagged fish. Eight of these tagged fish were recovered in 1985 and 65 fish were recovered in 1986. Data on the number of dorsal scutes present on each fish tagged by the Province of British Columbia as well as data on the occurrence of the nematode Cystoopsis acipenseris Wagner, 1867 in sturgeon caught at Nicomen Slough are also presented. Nine fish had radio tags attached externally on the dorsal surface, and four of them were also tagged with Petersen disc tags.

RÉSUMÉ

McDonald, T. E., E. D. Lane, F. Dalziel, V. J. Swiatkiewicz, and L. Margolis. 1989. Recoveries in 1985 and 1986 and releases in 1986 of tagged Fraser River white sturgeon, Acipenser transmontanus, together with data on the number of dorsal scutes and number of Cystoopsis acipenseris (Nematoda) present on some of the fish caught in 1986. Can. Data Rep. Fish. Aquat. Sci. 742: 33 p.

Ce rapport contient des données sur la longueur, le poids et le lâcher de 504 esturgeons blancs, Acipenser transmontanus Richardson, capturés et marqués à divers endroits dans le cours inférieur du Fraser, entre avril et novembre 1986, ainsi que des données sur la recapture de 73 poissons marqués. Huit poissons marqués ont été récupérés en 1985, et 65 poissons en 1986. Des données sur le nombre de plaques osseuses sur chaque poisson marqué par des fonctionnaires du Gouvernement de la Colombie-Britannique ainsi que des données sur l'occurrence du nématode Cystoopsis acipenseris Wagner, 1867 dans les esturgeons capturés à Nicomen Slough sont également présentées. Neuf poissons portaient des étiquettes émettrices sur leur surface dorsale, et quatre d'entre eux portaient également des étiquettes Petersen.

INTRODUCTION

Because of their long life span and late age at maturity, white sturgeon, Acipenser transmontanus Richardson 1836, may move extensively within the Fraser River system as juveniles or adults or both. To date, no documented evidence exists to show that Fraser River white sturgeon migrate into salt water. McDonald et al. (1987) recorded data on more than 700 white sturgeon tagged in 1985 to study their migration patterns, abundance, and rate of growth, and also provided data on 13 fish recovered in 1985. A total of 507 white sturgeon were caught and tagged in 1986. This report summarizes, by month and locality, the number of sturgeon caught and tagged (Table 1), the length and weight of each tagged sturgeon by date and locality of capture (Table 2), and the recapture date and locality for all tagged sturgeon recovered (Tables 3 and 4). Tagging sites for 1985 and 1986 are shown in Figure 4. Of the 73 recoveries listed (Tables 3 and 4), eight fish were recovered in 1985 and 65 fish (including 5 fish (Table 4) for which the validity of the tag numbers is questionable) were recovered in 1986. Seven fish tagged in 1985 and recovered in 1986 at Nicomen Slough must have overwintered in the main stream of the Fraser River and returned to the tagging site the following year because previous sampling demonstrated that no sturgeon were captured during monthly sampling at this site for the period Sept. to April. Upon recapture of fish with tag numbers 41515 and 41696, it was observed that the area around the tag appeared to be infected. Prior to releasing these fish a second time, an additional 0.20 cc (fish 41515) and 0.05 cc (fish 41696) of oxytetracycline was injected under the tag as treatment for the infection.

For 313 sturgeon tagged by representatives of the Province of British Columbia, the number of scutes in the dorsal row was counted and this informatiom is also included in Table 2.

Margolis and McDonald (1986) recorded the parasites recovered from immature white sturgeon caught in Nicomen Slough of the lower Fraser River in 1982. For the 189 sturgeon tagged at Nicomen Slough in 1986, the number of externally visible cysts of the parasitic nematode Cystoopsis acipenseris Wagner 1867, was counted and this information is also included in Table 2.

Data for date of capture, length, and weight corresponding with tag numbers 926 to 940 and 951 to 964, applied by representatives of the Province of British Columbia at Albion tagging site in 1985, have been lost. However, five of these tagged fish were recovered at the Albion site in 1986, as summarized in Table 3.

To study migration patterns of sturgeon from the lower Fraser River, nine fish (four of which were tagged with Petersen disc tags bearing numbers 201, 437, 702, and 965) had radio tags (Wildlife Materials model number HLPI-2140-LD or HLPI-21100-LD) attached externally to the dorsal surface of the fish.

METHODS

As the representative for the Province of British Columbia, V. J. Swiatkiewicz coordinated the tagging of sturgeon at 4 sites on the lower Fraser River, using Petersen disc tags of various color combinations, as follows: 1. Albion - yellow/white; 2. Bowmans Mill - blue/white; 3. Hatzic - blue/white or yellow/white; 4. Main Channel of Fraser River at Devil's Run west of Chilliwack, B.C. - pink/white. In these combinations, the first disc is blank and the second bears the tag number.

Sturgeon were captured at the Albion site by fishing during the high tide on Monday, Wednesday, or Friday using a 1000 ft (305 m) long gill net of 8 inch (20.3 cm) stretched mesh size, and on Tuesday, Thursday, or Saturday using a 1200 ft (366 m) long gill net of 5 inch (12.7 cm) stretched mesh size. One fish, tag no. 201, caught at this site on 9 April 1986 had a radio tag (frequency 50.502 MH_Z) attached externally on the dorsal surface between scutes 2 and 7. A second fish caught at this site on 16 November 1986 had a radio tag (frequency 50.202 MH_Z) attached externally, but no disc tag was applied.

For sturgeon captured at Bowmans Mill site, one 60 ft (18 m) net of stretched mesh size 3-4 inches (7.5-10.2 cm) and one 90 ft (27 m) net of mesh size 4-5 inches (10.2-12.7 cm) was used. One fish, tag no. 437, caught on 16 July 1986 had a radio tag (frequency 50.451 MH_Z) attached dorsally between scutes 2 and 7. A second fish, caught on 28 August 1986, had a radio tag (frequency 50.552 MH_Z) attached externally, but no disc tag was applied.

At Hatzic Slough site, two nets 90-120 ft (27-37 m) long and 4-5 inch (10.2-12.7 cm) mesh size were used to capture sturgeon.

Two sturgeon were caught by angling in the main channel of the Fraser River at Devil's Run west of Chilliwack, B.C. on 23 October 1986 and had radio tags attached dorsally between scutes 2 and 7 (tag no. 702 - frequency 50.050 MH_Z; tag no. 965 - frequency 50.653 MH_Z).

Three additional sturgeon caught in June 1986 in the main channel of the Fraser River off Jesperson Road (about 2 miles (3.2km) east of Chilliwack) had radio tags, but no disc tags, applied as follows: June 10 - radio tag frequency 50.401 MH_Z; June 24 - radio tag frequency 50.600 MH_Z; June 27 - radio tag frequency 50.103 MH_Z.

Petersen disc tags containing information as illustrated in Figure 1 were applied to 313 sturgeon. None of these tagged sturgeon was injected with oxytetracycline (O.T.C.).

E. D. Lane, T. E. McDonald, and F. Dalziel coordinated the capture and tagging of 189 sturgeon at Nicomen Slough near Dewdney, B.C. The method of capture and tagging was the same as that reported by McDonald et al. (1987) for fish captured in 1985. Usually fish larger than 30 cm total length were tagged, under the fifth dorsal scute counting posteriad from the head, with a

large Petersen disc tag color coded yellow/yellow and bearing information as illustrated in Figure 2. Fish too large to tag in this manner had the tag inserted under the dorsal fin. However, 43 fish (22.2 to 59.2 cm total length) were tagged with the same tag (illustrated in Figure 3) as used in 1985 (McDonald et al. 1987).

All sturgeon caught and tagged at Nicomen Slough in 1986 were injected with oxytetracycline (O.T.C.) at a level of about 0.25 cc of a commercial oxytetracycline preparation (containing 250 milligrams of O.T.C. per ml. of solution) per kilogram of fish, to enable study and verification of sturgeon age and growth rates upon subsequent recapture.

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Table 1. Summary of sturgeon tagging in the lower Fraser River in 1986, by month and locality.

Month	Locality	No. of fish tagged	Tag numbers
April	Albion	130	196-300; 941; 943-944; 946-950; 972-974; 976-979; 983-987; 989; 992; 996-997.
	Nicomen	0	
May	Albion	97	301-394; 400; 433
	Nicomen	1	41400
June	Albion	2	395-396
	Nicomen	102	A7000-A7080; 41401-41412; 41791-41799
	Zone 2	3	radio tags
July	Albion	1	397
	Bowmans	58	422-432; 434-457; 461-480; 482-483;
	Nicomen	86	A7081-A7145; 41413-41433
	Hatzic	3	
Aug.	Albion	6	398; 401-405
	Bowmans	9	485-490; 492-494
	Bowmans	1	radio tag
Sept.	Albion	3	406-408
	Nicomen	0	
Oct.	Albion	2	411; 413
	Zone 2	2	702; 965
Nov.	Albion	1	radio tag
		Total 507	

Table 2. List by tag number of white sturgeon tagged and released in the lower Fraser River in 1986 and date recovered in 1986.

Tag no.	Tag color	Capture date	Capture locality	Fork length in cm	Weight in kg	No. of scutes	Recapture date
196	Y/W	9 April	Albion	92	5.90	13	
197	Y/W	9 April	Albion	119	14.98	11	
198	Y/W	10 April	Albion	76	3.63	11	
199	Y/W	10 April	Albion	81	4.99	13	
200	Y/W	10 April	Albion	48	-	10	
201	Y/W	9 April	Albion	113	12.71	11	
202	Y/W	17 April	Albion	76	3.63	11	
203	Y/W	17 April	Albion	61	2.50	12	
204	Y/W	17 April	Albion	45	0.91	11	
205	Y/W	17 April	Albion	73	3.03	11	
206	Y/W	17 April	Albion	67	2.72	12	25 May
207	Y/W	17 April	Albion	58	1.82	13	23 April
208	Y/W	17 April	Albion	52	1.36	11	
209	Y/W	17 April	Albion	98	7.72	12	
210	Y/W	17 April	Albion	65	2.27	12	
211	Y/W	17 April	Albion	66	2.72	11	
212	Y/W	17 April	Albion	54	1.82	11	
213	Y/W	17 April	Albion	59	1.82	11	
214	Y/W	18 April	Albion	86	7.26	11	
215	Y/W	18 April	Albion	71	4.09	12	
216	Y/W	18 April	Albion	100	8.63	12	
217	Y/W	21 April	Albion	76	-	12	
218	Y/W	23 April	Albion	126	21.79	12	
219	Y/W	23 April	Albion	120	17.25	10	
220	Y/W	24 April	Albion	86	-	12	
221	Y/W	24 April	Albion	55	-	11	
222	Y/W	24 April	Albion	56	-	11	
223	Y/W	24 April	Albion	54	-	12	
224	Y/W	24 April	Albion	61	-	11	
225	Y/W	24 April	Albion	58	-	11	
226	Y/W	24 April	Albion	38	-	11	
227	Y/W	24 April	Albion	58	-	12	
228	Y/W	24 April	Albion	62	-	11	
229	Y/W	24 April	Albion	51	-	11	
230	Y/W	24 April	Albion	54	-	11	

Y=yellow
W=white

Table 2 (cont'd)

Tag no.	Tag color	Capture date	Capture locality	Fork length in cm	Weight in kg	No. of scutes	Recapture date
231	Y/W	24 April	Albion	49	-	11	
232	Y/W	24 April	Albion	59	-	12	
233	Y/W	18 April	Albion	42	-	14	
234	Y/W	18 April	Albion	80	-	11	
235	Y/W	25 April	Albion	89.5	-	11	
236	Y/W	28 April	Albion	100	9.53	11	20 June
237	Y/W	28 April	Albion	81	4.99	12	
238	Y/W	28 April	Albion	104	11.80	12	
239	Y/W	28 April	Albion	112	10.90	11	
240	Y/W	28 April	Albion	93	9.08	12	
241	Y/W	28 April	Albion	96	7.72	12	
242	Y/W	28 April	Albion	108	11.80	13	
243	Y/W	28 April	Albion	119	11.80	11	
244	Y/W	28 April	Albion	56	-	14	2 May
245	Y/W	28 April	Albion	80	-	12	
246	Y/W	28 April	Albion	57	-	12	
247	Y/W	28 April	Albion	64	-	11	
248	Y/W	28 April	Albion	72	-	12	
249	Y/W	28 April	Albion	65	-	13	
250	Y/W	28 April	Albion	66	-	12	
251	Y/W	28 April	Albion	103	-	11	
252	Y/W	28 April	Albion	83	-	14	
253	Y/W	28 April	Albion	72	-	13	
254	Y/W	28 April	Albion	47	-	12	
255	Y/W	28 April	Albion	93	-	12	
256	Y/W	28 April	Albion	75	-	13	
257	Y/W	28 April	Albion	75	-	13	
258	Y/W	28 April	Albion	61	-	12	
259	Y/W	28 April	Albion	68	-	11	
260	Y/W	28 April	Albion	49	-	13	
261	Y/W	28 April	Albion	48	-	12	
262	Y/W	29 April	Albion	76	-	12	
263	Y/W	29 April	Albion	48	-	14	
264	Y/W	29 April	Albion	54	-	14	
265	Y/W	29 April	Albion	78	-	12	

Y=yellow
W=white

Table 2 (cont'd)

Tag no.	Tag color	Capture date	Capture locality	Fork length in cm	Weight in kg	No. of scutes	Recapture date
266	Y/W	29 April	Albion	58	-	13	9 May
267	Y/W	29 April	Albion	52	-	13	5 May
268	Y/W	29 April	Albion	126	19.07	13	
269	Y/W	29 April	Albion	68	-	12	
270	Y/W	29 April	Albion	65	-	13	
271	Y/W	29 April	Albion	54	-	11	
272	Y/W	29 April	Albion	56	-	13	
273	Y/W	29 April	Albion	80	-	11	
274	Y/W	29 April	Albion	68	-	12	
275	Y/W	29 April	Albion	70	-	13	
276	Y/W	29 April	Albion	64	-	11	
277	Y/W	29 April	Albion	28	-	11	
278	Y/W	29 April	Albion	62	-	10	
279	Y/W	29 April	Albion	67	-	14	
280	Y/W	29 April	Albion	69	-	14	
281	Y/W	29 April	Albion	67	-	13	
282	Y/W	29 April	Albion	52	-	13	
283	Y/W	29 April	Albion	60	-	12	
284	Y/W	29 April	Albion	78	-	11	
285	Y/W	29 April	Albion	68	-	12	
286	Y/W	29 April	Albion	62	-	10	
287	Y/W	29 April	Albion	108	-	12	
288	Y/W	29 April	Albion	65	-	11	
289	Y/W	29 April	Albion	69	-	11	
290	Y/W	29 April	Albion	69	-	11	
291	Y/W	29 April	Albion	60	-	11	
292	Y/W	29 April	Albion	55	-	12	
293	Y/W	29 April	Albion	42	-	13	
294	Y/W	29 April	Albion	41	-	13	
295	Y/W	29 April	Albion	36	-	11	
296	Y/W	30 April	Albion	87	5.45	14	
297	Y/W	30 April	Albion	86	-	14	
298	Y/W	30 April	Albion	46	-	12	
299	Y/W	30 April	Albion	116	16.34	13	
300	Y/W	30 April	Albion	46	-	11	

Y=yellow
W=white

Table 2 (cont'd)

Tag no.	Tag color	Capture date	Capture locality	Fork length in cm	Weight in kg	No. of scutes	Recapture date
301	Y/W	1 May	Albion	55	-	11	
302	Y/W	1 May	Albion	53	-	12	
303	Y/W	1 May	Albion	65	-	11	
304	Y/W	1 May	Albion	55	-	12	
305	Y/W	1 May	Albion	58	-	11	
306	Y/W	1 May	Albion	68	-	10	
307	Y/W	1 May	Albion	90	-	12	
308	Y/W	1 May	Albion	77	-	13	
309	Y/W	1 May	Albion	67	-	13	5 May
310	Y/W	1 May	Albion	63	-	13	
311	Y/W	1 May	Albion	75	-	11	
312	Y/W	1 May	Albion	72	-	11	2 May
313	Y/W	1 May	Albion	72	-	13	
314	Y/W	1 May	Albion	53	-	10	14 May
315	Y/W	1 May	Albion	120	15.44	12	
316	Y/W	2 May	Albion	86	-	11	
317	Y/W	2 May	Albion	98	9.08	10	
318	Y/W	2 May	Albion	83	-	11	
319	Y/W	5 May	Albion	62	-	11	
320	Y/W	5 May	Albion	80	-	12	
321	Y/W	5 May	Albion	61	-	10	
322	Y/W	5 May	Albion	85	-	12	
323	Y/W	5 May	Albion	90	-	11	
324	Y/W	5 May	Albion	69	-	13	
325	Y/W	5 May	Albion	82	-	12	
326	Y/W	5 May	Albion	104	-	14	
327	Y/W	5 May	Albion	78	-	14	
328	Y/W	5 May	Albion	57	-	14	
329	Y/W	5 May	Albion	73	-	12	
330	Y/W	5 May	Albion	61	-	14	
331	Y/W	5 May	Albion	49	-	9	
332	Y/W	5 May	Albion	60	-	13	
333	Y/W	5 May	Albion	111	-	11	
334	Y/W	5 May	Albion	58	-	12	
335	Y/W	5 May	Albion	73	-	11	

Y=yellow
W=white

Table 2 (cont'd)

Tag no.	Tag color	Capture date	Capture locality	Fork length in cm	Weight in kg	No. of scutes	Recapture date
336	Y/W	5 May	Albion	63	-	12	
337	Y/W	5 May	Albion	60	-	12	
338	Y/W	5 May	Albion	59	-	11	
339	Y/W	5 May	Albion	46	-	12	
340	Y/W	5 May	Albion	73	-	11	
341	Y/W	5 May	Albion	67	-	15	
342	Y/W	5 May	Albion	54	-	11	
343	Y/W	5 May	Albion	60	-	10	
344	Y/W	5 May	Albion	63	-	12	
345	Y/W	5 May	Albion	84	-	13	
346	Y/W	5 May	Albion	62	-	13	
347	Y/W	5 May	Albion	40	-	12	
348	Y/W	5 May	Albion	105	-	11	
349	Y/W	5 May	Albion	60	-	11	
350	Y/W	5 May	Albion	66	-	11	
351	Y/W	1 May	Albion	93	-	12	
352	Y/W	1 May	Albion	98	-	12	
353	Y/W	1 May	Albion	56	-	12	
354	Y/W	1 May	Albion	94	-	12	
355	Y/W	1 May	Albion	98	-	11	
356	Y/W	8 May	Albion	58	-	12	
357	Y/W	8 May	Albion	65	-	11	
358	Y/W	8 May	Albion	48	-	11	
359	Y/W	8 May	Albion	50	-	12	
360	Y/W	8 May	Albion	63	-	12	
361	Y/W	8 May	Albion	41	-	13	
362	Y/W	8 May	Albion	35	-	11	
363	Y/W	8 May	Albion	33	-	9	19 May
364	Y/W	8 May	Albion	55	-	10	
365	Y/W	8 May	Albion	51	-	12	
366	Y/W	8 May	Albion	62	-	11	
367	Y/W	8 May	Albion	75	-	12	
368	Y/W	8 May	Albion	54	-	11	
369	Y/W	8 May	Albion	63	-	12	
370	Y/W	8 May	Albion	61	-	11	

Y=yellow
W=white

Table 2 (cont'd)

Tag no.	Tag color	Capture date	Capture locality	Fork length in cm	Weight in kg	No. of scutes	Recapture date
371	Y/W	8 May	Albion	48	-	14	
372	Y/W	8 May	Albion	48	-	14	
373	Y/W	8 May	Albion	41	-	13	
374	Y/W	8 May	Albion	36	-	12	
375	Y/W	8 May	Albion	44	-	13	
376	Y/W	8 May	Albion	69	-	13	
377	Y/W	5 May	Albion	128	22.70	11	
378	Y/W	8 May	Albion	51	-	13	
379	Y/W	8 May	Albion	59	-	13	
380	Y/W	8 May	Albion	67	-	12	
381	Y/W	8 May	Albion	62	-	12	
382	Y/W	8 May	Albion	76	-	11	
383	Y/W	9 May	Albion	84	-	12	
384	Y/W	9 May	Albion	67	-	11	
385	Y/W	9 May	Albion	67	-	11	
386	Y/W	9 May	Albion	68	-	12	
387	Y/W	9 May	Albion	58	-	12	
388	Y/W	9 May	Albion	45	-	11	
389	Y/W	9 May	Albion	83	3.63	12	
389	Y/W	9 May	Albion	90	5.90	12	
390	Y/W	16 May	Albion	104	-	14	
391	Y/W	19 May	Albion	83	-	12	
392	Y/W	19 May	Albion	92	-	12	
393	Y/W	21 May	Albion	128	-	11	
394	Y/W	23 May	Albion	124	-	11	
395	Y/W	9 June	Albion	96	-	13	
396	Y/W	25 June	Albion	90	6.36	12	
397	Y/W	16 July	Albion	88	5.45	13	
398	Y/W	4 Aug.	Albion	92	6.36	13	
399		NOT USED					
400	Y/W	12 May	Albion	88	5.45	12	
401	Y/W	22 Aug.	Albion	147	21.79	10	
402	Y/W	28 Aug.	Albion	96	9.99	11	
403	Y/W	29 Aug.	Albion	98	8.17	12	
404	Y/W	29 Aug.	Albion	130	16.34	12	
405	Y/W	29 Aug.	Albion	75	3.63	11	

Y=yellow
W=white

Table 2 (cont'd)

Tag no.	Tag color	Capture date	Capture locality	Fork length in cm	Weight in kg	No. of scutes	Recapture date
406	Y/W	8 Sept.	Albion	105	11.80	11	
407	Y/W	19 Sept.	Albion	95	7.72	11	
408	Y/W	26 Sept.	Albion	100	10.44	12	
409		NOT USED					
410		NOT USED					
411	Y/W	2 Oct.	Albion	126	15.89	12	
412		NOT USED					
413	Y/W	10 Oct.	Albion	72	4.54	11	
414		NOT USED					
415		NOT USED					
416		NOT USED					
417		NOT USED					
418		NOT USED					
419		NOT USED					
420	B/W	July	Hatzic	51	-	13	
421	B/W	July	Hatzic	42	-	12	
422	B/W	8 July	Bowmans	120	-	12	
423	B/W	8 July	Bowmans	59	-	10	
424	B/W	8 July	Bowmans	58	-	12	
425	B/W	8 July	Bowmans	57	-	11	
426	B/W	8 July	Bowmans	56	-	12	
427	B/W	8 July	Bowmans	51	-	13	
428	B/W	8 July	Bowmans	71	-	13	
429	B/W	8 July	Bowmans	94	-	12	
430	B/W	8 July	Bowmans	45	-	12	
431	B/W	10 July	Bowmans	57	-	12	
432	B/W	10 July	Bowmans	70	-	11	
433	Y/W	1 May	Albion	142	25.88	11	
434	B/W	10 July	Bowmans	61	-	12	
435	B/W	10 July	Bowmans	64	-	12	
436	B/W	10 July	Bowmans	69	-	14	
437	B/W	16 July	Bowmans	83	-	12	
438	B/W	16 July	Bowmans	72	-	12	
439	B/W	16 July	Bowmans	62	-	11	
440	B/W	22 July	Bowmans	82	-	12	

Y=yellow
B=blue
W=white

Table 2 (cont'd)

Tag no.	Tag color	Capture date	Capture locality	Fork length in cm	Weight in kg	No. of scutes	Recapture date
441	B/W	22 July	Bowmans	54	-	11	
442	B/W	22 July	Bowmans	55	-	12	
443	B/W	22 July	Bowmans	98	-	12	
444	B/W	22 July	Bowmans	70	-	12	
445	B/W	22 July	Bowmans	56	-	10	
446	B/W	22 July	Bowmans	53	-	12	
447	B/W	22 July	Bowmans	63	-	14	
448	B/W	22 July	Bowmans	54	-	11	
449	B/W	23 July	Bowmans	46	-	14	
450	B/W	23 July	Bowmans	53	-	12	30 July
451	B/W	23 July	Bowmans	64	-	12	
452	B/W	23 July	Bowmans	76	-	13	
453	B/W	23 July	Bowmans	74	-	10	
454	B/W	23 July	Bowmans	71	-	13	
455	B/W	23 July	Bowmans	113	-	10	
456	B/W	29 July	Bowmans	97	-	14	
457	B/W	30 July	Bowmans	82	-	12	
458	B/W	30 July	Bowmans	75	-	12	
459		NOT USED					
460		NOT USED					
461	B/W	30 July	Bowmans	84	-	12	
462	B/W	30 July	Bowmans	70	-	12	
463	B/W	30 July	Bowmans	69	-	12	
464	B/W	30 July	Bowmans	75	-	13	
465	B/W	30 July	Bowmans	66	-	11	
466	B/W	30 July	Bowmans	85	-	12	
467	B/W	30 July	Bowmans	54	-	11	
468	B/W	30 July	Bowmans	60	-	12	
469	B/W	30 July	Bowmans	79	-	10	
470	B/W	30 July	Bowmans	105	-	12	
471	B/W	30 July	Bowmans	56	-	12	
472	B/W	30 July	Bowmans	49	-	12	
473	B/W	30 July	Bowmans	46	-	13	
474	B/W	30 July	Bowmans	70	-	14	
475	B/W	30 July	Bowmans	47	-	12	

B-blue
W-white

Table 2 (cont'd)

Tag no.	Tag color	Capture date	Capture locality	Fork length in cm	Weight in kg	No. of scutes	Recapture date
476	B/W	30 July	Bowmans	67	-	11	
477	B/W	30 July	Bowmans	70	-	12	
478	B/W	30 July	Bowmans	75	-	11	
479	B/W	30 July	Bowmans	82	-	12	
480	B/W	30 July	Bowmans	70	-	11	
481		NOT USED					
482	B/W	30 July	Bowmans	87	-	10	
483	B/W	30 July	Bowmans	88	-	12	
484		NOT USED					
485	B/W	12 Aug.	Bowmans	71	-	11	
486	B/W	12 Aug.	Bowmans	53	-	12	
487	B/W	12 Aug.	Bowmans	72	-	11	
488	B/W	12 Aug.	Bowmans	79	-	13	
489	B/W	19 Aug.	Bowmans	68	-	12	
490	B/W	19 Aug.	Bowmans	62	-	12	
491		NOT USED					
492	B/W	19 Aug.	Bowmans	61	-	11	
493	B/W	19 Aug.	Bowmans	83	-	14	
494	B/W	19 Aug.	Bowmans	62	-	11	
702	P/W	23 Oct.	Zone 2	94	-	13	
941	Y/W	10 Apr.	Albion	63	-	12	
942		NOT USED					
943	Y/W	10 Apr.	Albion	65	-	12	
974	Y/W	10 Apr.	Albion	60	-	11	
945		NOT USED					
946	Y/W	10 Apr.	Albion	59	-	11	
947	Y/W	10 Apr.	Albion	68	2.72	11	
948	Y/W	10 Apr.	Albion	51	-	12	1 May, 9 May
949	Y/W	10 Apr.	Albion	50	-	10	
950	Y/W	10 Apr.	Albion	60	-	11	

B=blue
P=pink
Y=yellow
W=white

Table 2 (cont'd)

Tag no.	Tag color	Capture date	Capture locality	Fork length in cm	Weight in kg	No. of scutes	Recapture date
965	P/W	23 Oct.	Zone 2	89	-	13	
972	Y/W	10 Apr.	Albion	54	-	11	
973	Y/W	10 Apr.	Albion	75	-	11	
974	Y/W	10 Apr.	Albion	52	-	12	
975		NOT USED					
976	Y/W	10 Apr.	Albion	36	-	11	
977	Y/W	10 Apr.	Albion	60	-	11	
978	Y/W	10 Apr.	Albion	68	-	13	
979	Y/W	10 Apr.	Albion	61	-	13	5 May
980		NOT USED					
981		NOT USED					
982		NOT USED					
983	Y/W	10 Apr.	Albion	66	-	11	21 Apr.
984	Y/W	14 Apr.	Albion	76	4.09	13	
985	Y/W	14 Apr.	Albion	101	3.63	13	
986	Y/W	10 Apr.	Albion	65	-	12	
987	Y/W	10 Apr.	Albion	79	-	12	
988		NOT USED					
989	Y/W	16 Apr.	Albion	97	7.26	13	
990		NOT USED					
991		NOT USED					
992	Y/W	16 Apr.	Albion	90	6.36	13	
993		NOT USED					
994		NOT USED					
995		NOT USED					
996	Y/W	16 Apr.	Albion	62	5.45	12	
997	Y/W	17 Apr.	Albion	54	1.82	11	
998	Y/W	July	Hatzic	49	-	12	
999		NOT USED					

P=pink
Y=yellow
W=white

Table 2 (cont'd)

Tag no.	Tag color	Capture date	Capture locality	Total length in cm	Fork length in cm	Weight in kg	O.T.C. injection in cc	No. of *Cystoopsis* cysts	Recapture date
A7000	Y/Y	19 June	Nicomen Slough	74.2	65.3	2.05	0.50	0	
A7001	Y/Y	19 June	Nicomen Slough	58.2	52.0	1.27	0.30	0	16 July
A7002	Y/Y	19 June	Nicomen Slough	87.0	76.5	4.20	1.00	0	
A7003	Y/Y	19 June	Nicomen Slough	73.8	65.0	2.05	0.50	2	
A7004	Y/Y	19 June	Nicomen Slough	81.5	70.5	2.60	0.60	0	
A7005	Y/Y	19 June	Nicomen Slough	72.4	63.0	2.23	0.55	0	
A7006	Y/Y	19 June	Nicomen Slough	46.6	40.8	0.60	0.15	0	
A7007	Y/Y	19 June	Nicomen Slough	40.2	35.7	0.38	0.15	0	
A7008	Y/Y	19 June	Nicomen Slough	33.3	29.3	0.24	0.10	2	20 June
A7009	Y/Y	19 June	Nicomen Slough	33.5	29.8	0.21	0.10	7	
A7010	Y/Y	19 June	Nicomen Slough	62.5	55.0	1.30	0.30	0	
A7011	Y/Y	19 June	Nicomen Slough	72.16	63.8	2.10	0.50	0	
A7012	Y/Y	19 June	Nicomen Slough	75.5	67.1	2.58	0.65	0	
A7013	Y/Y	19 June	Nicomen Slough	68.9	53.5	1.20	0.35	0	24 July
A7014	Y/Y	19 June	Nicomen Slough	58.9	50.6	0.90	0.25	0	
A7015	Y/Y	19 June	Nicomen Slough	65.3	57.1	1.35	0.35	0	
A7016	Y/Y	19 June	Nicomen Slough	62.6	54.5	1.10	0.25	0	20 June
A7017	Y/Y	19 June	Nicomen Slough	74.5	65.2	2.10	0.50	0	
A7018	Y/Y	19 June	Nicomen Slough	65.1	57.1	1.30	0.30	0	
A7019	Y/Y	19 June	Nicomen Slough	51.5	45.5	0.75	0.20	0	
A7020	Y/Y	19 June	Nicomen Slough	67.9	59.6	1.50	0.35	0	
A7021	Y/Y	19 June	Nicomen Slough	52.1	45.0	0.70	0.20	0	
A7022	Y/Y	19 June	Nicomen Slough	49.0	43.5	0.72	0.20	0	
A7023	Y/Y	19 June	Nicomen Slough	48.0	42.4	0.52	0.15	0	17 July
A7024	Y/Y	19 June	Nicomen Slough	43.4	38.0	0.44	0.15	0	
A7025	Y/Y	19 June	Nicomen Slough	45.5	40.0	0.55	0.15	0	
A7026	Y/Y	19 June	Nicomen Slough	80.6	70.2	2.68	0.65	0	
A7027	Y/Y	19 June	Nicomen Slough	83.0	74.5	2.94	0.75	0	
A7028	Y/Y	19 June	Nicomen Slough	51.0	44.8	0.64	0.15	0	
A7029	Y/Y	19 June	Nicomen Slough	42.6	37.1	0.35	0.10	0	
A7030	Y/Y	19 June	Nicomen Slough	55.2	48.4	0.95	0.25	0	
A7031	Y/Y	19 June	Nicomen Slough	43.3	38.8	0.42	0.10	0	17 July
A7032	Y/Y	19 June	Nicomen Slough	53.0	46.5	0.77	0.20	0	
A7033	Y/Y	19 June	Nicomen Slough	64.9	58.0	1.50	0.40	0	

Y-yellow

Table 2 (cont'd)

Tag no.	Tag color	Capture date	Capture locality	Total length in cm	Fork length in cm	Weight in kg	O.T.C. injection in cc	No. of *Cystoopsis* cysts	Recapture date
A7034	Y/Y	19 June	Nicomen Slough	64.1	55.5	1.30	0.35	0	
A7035	Y/Y	19 June	Nicomen Slough	50.4	45.1	0.70	0.20	0	
A7036	Y/Y	19 June	Nicomen Slough	63.3	54.7	1.51	0.35	2	
A7037	Y/Y	19 June	Nicomen Slough	63.0	54.9	1.39	0.35	0	
A7038	Y/Y	19 June	Nicomen Slough	72.8	64.8	1.75	0.45	0	
A7039	Y/Y	19 June	Nicomen Slough	63.2	55.8	1.15	0.35	0	
A7040	Y/Y	19 June	Nicomen Slough	83.3	72.6	3.15	0.75	0	
A7041	Y/Y	19 June	Nicomen Slough	70.5	61.6	1.70	0.35	0	
A7042	Y/Y	19 June	Nicomen Slough	87.0	76.0	3.80	0.90	0	
A7043	Y/Y	19 June	Nicomen Slough	77.5	66.0	2.45	0.60	0	
A7044	Y/Y	19 June	Nicomen Slough	91.0	79.8	4.05	1.00	1	
A7045	Y/Y	19 June	Nicomen Slough	92.6	81.5	4.00	1.00	0	16 Aug.
A7046	Y/Y	19 June	Nicomen Slough	69.6	61.2	1.90	0.50	0	
A7047	Y/Y	19 June	Nicomen Slough	82.4	72.0	2.55	0.55	0	
A7048	Y/Y	19 June	Nicomen Slough	83.0	72.8	3.30	0.75	0	
A7049	Y/Y	19 June	Nicomen Slough	59.9	52.5	1.08	0.25	0	
A7050	Y/Y	19 June	Nicomen Slough	51.5	45.5	0.80	0.20	0	
A7051	Y/Y	19 June	Nicomen Slough	57.0	50.2	1.10	0.25	0	
A7052	Y/Y	19 June	Nicomen Slough	75.1	66.5	2.25	0.55	0	
A7053	Y/Y	19 June	Nicomen Slough	53.2	47.3	0.75	0.20	0	
A7054	Y/Y	19 June	Nicomen Slough	56.6	50.3	0.90	0.25	0	
A7055	Y/Y	19 June	Nicomen Slough	58.0	50.6	1.05	0.25	0	
A7056	Y/Y	19 June	Nicomen Slough	213.0	198.0	-	5.0	0	
A7057	Y/Y	19 June	Nicomen Slough	44.2	38.5	0.45	0.15	0	
A7058	Y/Y	19 June	Nicomen Slough	55.8	48.9	0.90	0.25	0	18 July
A7059	Y/Y	19 June	Nicomen Slough	37.2	32.5	0.25	0.10	0	
A7060	Y/Y	19 June	Nicomen Slough	42.1	37.2	0.43	0.15	0	
A7061	Y/Y	19 June	Nicomen Slough	35.5	31.5	0.22	0.10	0	
A7062	Y/Y	19 June	Nicomen Slough	43.5	39.0	0.45	0.15	0	
A7063	Y/Y	19 June	Nicomen Slough	42.0	36.8	0.40	0.15	0	
A7064	Y/Y	19 June	Nicomen Slough	33.1	29.2	0.20	0.05	0	

Y=yellow

Table 2 (cont'd)

Tag no.	Tag color	Capture date	Capture locality	Total length in cm	Fork length in cm	Weight in kg	O.T.C. injection in cc	No. of Cystoopsis cysts	Recapture date
A7065	Y/Y	20 June	Nicomen Slough	52.9	46.5	0.74	0.20	0	
A7066	Y/Y	20 June	Nicomen Slough	67.2	59.3	1.57	0.35	0	
A7067	Y/Y	20 June	Nicomen Slough	69.6	60.5	1.62	0.35	0	
A7068	Y/Y	20 June	Nicomen Slough	49.0	42.5	0.61	0.15	0	
A7069	Y/Y	20 June	Nicomen Slough	48.4	41.8	0.58	0.15	0	
A7070	Y/Y	20 June	Nicomen Slough	68.8	62.3	1.90	0.50	0	
A7071	Y/Y	20 June	Nicomen Slough	75.4	66.0	2.27	0.60	0	
A7072	Y/Y	20 June	Nicomen Slough	51.5	45.0	0.73	0.20	0	
A7073	Y/Y	20 June	Nicomen Slough	58.5	50.8	0.96	0.25	0	
A7074	Y/Y	20 June	Nicomen Slough	51.8	45.5	0.74	0.20	0	
A7075	Y/Y	20 June	Nicomen Slough	109.7	97.5	7.20	2.00	0	
A7076	Y/Y	20 June	Nicomen Slough	59.5	51.0	1.00	0.25	0	
A7077	Y/Y	20 June	Nicomen Slough	55.7	48.7	0.86	0.20	0	
A7078	Y/Y	20 June	Nicomen Slough	50.9	44.4	0.71	0.15	0	
A7079	Y/Y	20 June	Nicomen Slough	53.9	47.0	0.70	0.15	0	
A7080	Y/Y	20 June	Nicomen Slough	47.5	41.5	0.60	0.15	0	
A7081	Y/Y	16 July	Nicomen Slough	48.5	42.1	0.50	0.15	0	17 July
A7082	Y/Y	16 July	Nicomen Slough	67.0	58.5	1.28	0.35	0	
A7083	Y/Y	16 July	Nicomen Slough	64.4	57.8	1.25	0.30	0	
A7084	Y/Y	16 July	Nicomen Slough	48.2	42.5	0.55	0.15	0	
A7085	Y/Y	16 July	Nicomen Slough	39.7	34.8	0.30	0.10	0	
A7086	Y/Y	16 July	Nicomen Slough	37.8	33.0	0.26	0.10	0	18 July
A7087	Y/Y	16 July	Nicomen Slough	38.5	33.8	0.25	0.10	0	
A7088	Y/Y	16 July	Nicomen Slough	60.5	52.9	1.05	0.25	0	
A7089	Y/Y	16 July	Nicomen Slough	38.4	34.0	0.30	0.10	4	
A7090	Y/Y	16 July	Nicomen Slough	41.0	35.6	0.32	0.10	13	
A7091	Y/Y	16 July	Nicomen Slough	37.6	33.1	0.28	0.10	0	
A7092	Y/Y	16 July	Nicomen Slough	55.3	48.5	1.00	0.25	8	
A7093	Y/Y	16 July	Nicomen Slough	46.1	41.0	0.45	0.15	0	
A7094	Y/Y	16 July	Nicomen Slough	46.2	40.3	0.50	0.15	0	
A7095	Y/Y	16 July	Nicomen Slough	38.3	33.7	0.25	0.10	1	
A7096	Y/Y	16 July	Nicomen Slough	36.9	32.0	0.25	0.10	0	
A7097	Y/Y	16 July	Nicomen Slough	33.9	29.4	0.20	0.10	0	
A7098	Y/Y	16 July	Nicomen Slough	32.2	29.0	0.20	0.10	0	

Y-yellow

Table 2 (cont'd)

Tag no.	Tag color	Capture date	Capture locality	Total length in cm	Fork length in cm	Weight in kg	O.T.C. injection in cc	No. of *Cystoopsis* cysts	Recapture date
A7099	Y/Y	17 July	Nicomen Slough	56.7	49.5	0.98	0.25	0	
A7100	Y/Y	17 July	Nicomen Slough	55.3	47.5	0.80	0.25	0	
A7101	Y/Y	17 July	Nicomen Slough	51.7	45.4	0.60	0.20	0	
A7102	Y/Y	17 July	Nicomen Slough	37.5	32.9	0.27	0.15	14	
A7103	Y/Y	17 July	Nicomen Slough	34.6	30.3	0.18	0.10	15	17 July
A7104	Y/Y	17 July	Nicomen Slough	33.4	28.8	0.20	0.10	4	
A7105	Y/Y	17 July	Nicomen Slough	43.5	38.4	0.45	0.15	0	17 July
A7106	Y/Y	17 July	Nicomen Slough	34.6	30.2	0.20	0.10	0	
A7107	Y/Y	17 July	Nicomen Slough	59.2	51.2	1.10	0.25	0	18 July
A7108	Y/Y	17 July	Nicomen Slough	49.9	44.1	0.60	0.15	0	17 & 18 July
A7109	Y/Y	17 July	Nicomen Slough	43.6	38.4	0.50	0.15	0	
A7110	Y/Y	17 July	Nicomen Slough	33.8	29.5	0.25	0.10	0	
A7111	Y/Y	17 July	Nicomen Slough	47.6	40.3	0.48	0.15	0	
A7112	Y/Y	17 July	Nicomen Slough	51.5	45.5	0.65	0.15	0	17 & 18 July
A7113	Y/Y	17 July	Nicomen Slough	36.0	32.4	0.24	0.10	12	
A7114	Y/Y	17 July	Nicomen Slough	90.0	78.8	3.10	0.75	0	
A7115	Y/Y	17 July	Nicomen Slough	44.1	38.2	0.30	0.15	0	
A7116	Y/Y	17 July	Nicomen Slough	51.0	44.0	0.50	0.15	0	
A7117	Y/Y	17 July	Nicomen Slough	60.2	54.0	1.10	0.25	0	17 July
A7118	Y/Y	17 July	Nicomen Slough	52.2	45.1	0.72	0.20	0	
A7119	Y/Y	17 July	Nicomen Slough	59.1	53.0	1.00	0.25	0	
A7120	Y/Y	17 July	Nicomen Slough	52.2	45.4	0.60	0.15	0	
A7121	Y/Y	17 July	Nicomen Slough	47.5	41.8	0.46	0.15	0	18 July
A7122	Y/Y	17 July	Nicomen Slough	51.0	44.0	0.61	0.15	0	
A7123	Y/Y	17 July	Nicomen Slough	51.5	44.6	0.65	0.15	0	
A7124	Y/Y	17 July	Nicomen Slough	57.0	49.5	0.80	0.20	0	
A7125	Y/Y	17 July	Nicomen Slough	35.0	31.0	0.26	0.10	6	
A7126	Y/Y	17 July	Nicomen Slough	43.0	38.6	0.35	0.15	0	
A7127	Y/Y	17 July	Nicomen Slough	51.6	44.7	0.55	0.20	0	
A7128	Y/Y	17 July	Nicomen Slough	34.5	30.8	0.25	0.15	4	
A7129	Y/Y	17 July	Nicomen Slough	35.3	30.8	0.25	0.15	4	
A7130	Y/Y	17 July	Nicomen Slough	66.3	58.3	1.50	0.35	0	
A7131	Y/Y	17 July	Nicomen Slough	33.0	28.7	0.20	0.10	0	
A7132	Y/Y	17 July	Nicomen Slough	31.2	27.5	0.20	0.10	7	

Y=yellow

Table 2 (cont'd)

Tag no.	Tag color	Capture date	Capture locality	Total length in cm	Fork length in cm	Weight in kg	O.T.C. injection in cc	No. of *Cystoopsis* cysts	Recapture date
A7133	Y/Y	17 July	Nicomen Slough	62.6	55.1	1.30	0.30	0	
A7134	Y/Y	17 July	Nicomen Slough	46.8	40.5	0.45	0.20	0	
A7135	Y/Y	18 July	Nicomen Slough	56.2	49.0	0.82	0.20	0	
A7136	Y/Y	18 July	Nicomen Slough	50.9	44.5	0.60	0.15	0	
A7137	Y/Y	18 July	Nicomen Slough	54.2	48.1	0.74	0.20	0	
A7138	Y/Y	18 July	Nicomen Slough	35.0	31.0	0.20	0.10	0	
A7139	Y/Y	18 July	Nicomen Slough	34.9	30.5	0.20	0.10	0	
A7140	Y/Y	18 July	Nicomen Slough	67.5	59.1	1.52	0.40	0	
A7141	Y/Y	18 July	Nicomen Slough	53.5	47.0	0.75	0.20	0	
A7142	Y/Y	18 July	Nicomen Slough	37.2	33.0	0.33	0.15	0	
A7143	Y/Y	18 July	Nicomen Slough	38.2	33.5	0.32	0.15	0	
A7144	Y/Y	18 July	Nicomen Slough	36.4	32.0	0.27	0.10	0	
A7145	Y/Y	18 July	Nicomen Slough	35.0	30.6	0.25	0.10	0	
41400	Y/Y	22 May	Nicomen Slough	59.2	-	0.88	0.20	0	
41401	Y/Y	19 June	Nicomen Slough	26.4	23.8	0.12	0.05	0	
41402	Y/Y	19 June	Nicomen Slough	33.1	29.0	0.20	0.10	0	
41403	Y/Y	19 June	Nicomen Slough	28.3	24.5	0.15	0.05	0	
41404	Y/Y	19 June	Nicomen Slough	29.9	26.2	0.12	0.05	0	
41405	Y/Y	19 June	Nicomen Slough	30.6	27.0	0.12	0.05	6	
41406	Y/Y	19 June	Nicomen Slough	30.2	26.5	0.14	0.05	0	17 July
41407	Y/Y	20 June	Nicomen Slough	37.1	32.5	0.20	0.10	0	
41408	Y/Y	20 June	Nicomen Slough	31.4	28.2	0.15	0.05	0	
41409	Y/Y	20 June	Nicomen Slough	36.8	32.0	0.24	0.10	0	
41410	Y/Y	20 June	Nicomen Slough	28.5	25.0	0.11	0.05	4	
41411	Y/Y	20 June	Nicomen Slough	35.4	31.5	0.24	0.10	0	17 July
41412	Y/Y	20 June	Nicomen Slough	29.7	26.0	0.14	0.05	0	
41413	Y/Y	16 July	Nicomen Slough	26.5	23.5	0.10	0.05	0	
41414	Y/Y	16 July	Nicomen Slough	32.0	28.3	0.15	0.05	0	
41415	Y/Y	16 July	Nicomen Slough	29.2	25.4	0.10	0.05	0	
41416	Y/Y	16 July	Nicomen Slough	24.5	21.8	0.08	0.05	0	
41417	Y/Y	16 July	Nicomen Slough	29.2	25.5	0.10	0.05	0	
41418	Y/Y	16 July	Nicomen Slough	26.9	23.5	0.09	0.05	0	

Y=yellow

Table 2 (cont'd)

Tag no.	Tag color	Capture date	Capture locality	Total length in cm	Fork length in cm	Weight in kg	O.T.C. injection in cc	No. of *Cystoopsis* cysts	Recapture date
41419	Y/Y	17 July	Nicomen Slough	29.2	26.0	0.12	0.05	0	
41420	Y/Y	17 July	Nicomen Slough	29.8	25.7	0.15	0.05	0	
41421	Y/Y	17 July	Nicomen Slough	29.2	25.6	0.16	0.05	0	
41422	Y/Y	17 July	Nicomen Slough	30.2	26.5	0.12	0.05	0	
41423	Y/Y	17 July	Nicomen Slough	24.5	21.8	0.06	0.05	0	
41424	Y/Y	17 July	Nicomen Slough	30.9	27.3	0.18	0.05	0	
41425	Y/Y	17 July	Nicomen Slough	32.5	28.2	0.16	0.05	4	
41426	Y/Y	17 July	Nicomen Slough	25.6	22.4	0.10	0.05	0	
41427	Y/Y	17 July	Nicomen Slough	28.1	24.3	0.15	0.05	6	
41428	Y/Y	17 July	Nicomen Slough	23.0	20.7	0.12	0.05	0	
41429	Y/Y	17 July	Nicomen Slough	29.2	25.8	0.10	0.05	0	
41430	Y/Y	17 July	Nicomen Slough	29.5	26.2	0.11	0.05	0	
41431	Y/Y	17 July	Nicomen Slough	29.0	25.1	0.10	0.05	0	
41432	Y/Y	18 July	Nicomen Slough	29.8	26.0	0.15	0.05	0	
41433	Y/Y	18 July	Nicomen Slough	30.2	26.5	0.20	0.05	0	
41791	Y/Y	19 June	Nicomen Slough	29.3	26.0	0.10	0.05	0	
41792	Y/Y	19 June	Nicomen Slough	35.6	31.4	0.25	0.10	0	17 July
41793	Y/Y	19 June	Nicomen Slough	22.2	19.5	0.16	0.05	0	
41794	Y/Y	19 June	Nicomen Slough	36.0	31.0	0.22	0.10	2	
41795	Y/Y	19 June	Nicomen Slough	27.0	23.5	0.10	0.05	0	
41796	Y/Y	19 June	Nicomen Slough	36.6	32.0	0.25	0.10	0	17 July
41797	Y/Y	19 June	Nicomen Slough	29.0	25.2	0.10	0.05	0	
41798	Y/Y	19 June	Nicomen Slough	32.1	28.7	0.16	0.05	0	
41799	Y/Y	19 June	Nicomen Slough	40.3	35.1	0.29	0.10	0	

Y=yellow

Table 3. Release and recovery data for white sturgeon tagged and recovered in the lower Fraser River in 1985 and 1986.

Tag no.	Date tagged	Tagging locality	Date recovered	Recovery locality	Recovered by	Fish movement in km	Weight in kg		Fork length in cm		Total length in cm	
							Release	Recovery	Release	Recovery	Release	Recovery
206	17 April 1986	Albion	25 May 1986	Zone 2	Sportsfisherman (R)	Upstream	2.72	-	67	76.2	-	-
207	17 April 1986	Albion	23 April 1986	Albion	Taggers (R)	None	1.82	-	58	-	-	-
236	28 April 1986	Albion	20 June 1986	Nicomen	Taggers (R)	upstream about 30 km	9.53	-	100	-	-	-
244	28 April 1986	Albion	2 May 1986	Albion	Taggers (R)	None	-	-	56	-	-	-
266	29 April 1986	Albion	9 May 1986	Albion	Taggers (R)	None	-	-	58	-	-	-
267	29 April 1986	Albion	5 May 1986	Albion	Taggers (R)	None	-	-	52	-	-	-
309	1 May 1986	Albion	5 May 1986	Albion	Taggers (R)	None	-	-	67	-	-	-
312	1 May 1986	Albion	2 May 1986	Albion	Taggers (R)	None	-	-	72	-	-	-
314	1 May 1986	Albion	14 May 1986	Albion	Taggers (R)	None	-	-	53	-	-	-
363	8 May 1986	Albion	19 May 1986	Albion	Taggers (R)	None	-	-	33	-	-	-
450	23 July 1986	Bowmans	30 July 1986	Bowmans	Taggers (R)	None	-	-	53	-	-	-
525	5 June 1985	Hatzic	25 Nov 1985	Silverdale	Commercial fisherman (R)	downstream about 10 km	-	-	36.8	-	-	-
534	11 June 1985	Hatzic	9 July 1985	Zone 2	Sportsfisherman (R)	?	-	-	71.1	69.8	-	-
551	11 June 1985	Hatzic	29 June 1985	Ridgedale	Sportsfisherman (R)	upstream about 2 km	-	-	82.6	81.3	-	-
602	21 June 1985	Zone 4	21 June 1985	Zone 4	Sportsfisherman (R)	?	-	-	262.9	262.9	-	-
603	28 June 1985	Zone 4	28 June 1985	Zone 4	Sportsfisherman (R)	?	-	-	95.3	95.3	-	-
755	23 July 1985	Bowmans	25 Aug. 1985	Zone 2	Sportsfisherman (R)	?	-	-	66.0	66.0	-	-
863	11 Aug. 1985	McDonalds Landing	6 May 1985	Zone 2	Sportsfisherman (R)	?	-	-	81.3	81.3	-	-
928	1985	Albion	19 Oct. 1986	Zone 2	Sportsfisherman (K)	upstream	-	-	-	137.2	-	-
930	1985	Albion	17 April 1986	Albion	Taggers (R)	None	-	-	-	-	-	-
948	10 April 1986	Albion	1 May 1986	Albion	Taggers (R)	None	-	-	51	-	-	-
948	10 April 1986	Albion	19 May 1986	Albion	Taggers (R)	None	-	-	51	-	-	-
960	1985	Albion	18 July 1985	Albion	Taggers (R)	None	-	-	-	-	-	-

R=fish released after recovery
K=fish killed at recovery

Table 3 (cont'd)

Tag no.	Date tagged	Tagging locality	Date recovered	Recovery locality	Recovered by	Fish movement in km	Weight in kg		Fork length in cm		Total length in cm	
							Release	Recovery	Release	Recovery	Release	Recovery
963	1985	Albion	21 April 1986	Albion	Taggers (R)	None	-	-	-	-	-	-
964	1985	Albion	21 April 1986	Albion	Taggers (R)	None	-	-	-	-	-	-
979	10 April 1986	Albion	5 May 1986	Albion	Taggers (R)	None	-	-	-	-	-	-
983	10 April 1986	Albion	21 April 1986	Albion	Taggers (R)	None	-	-	61	-	-	-
2012	10 July 1985	Bowmans	19 Aug. 1986	Bowmans	Taggers (R)	None	-	-	66	-	-	-
2032	16 July 1985	Bowmans	27 Aug. 1985	Zone 1	Sports-fisherman (K)	Downstream	-	-	*106.7	106.7	-	-
2036	16 July 1985	Bowmans	7 July 1986	Southside of Barnston Island	Sports-fisherman (R)	Downstream about 83 km	-	-	*50.8	-	-	-
A7001	19 June 1986	Nicomen	16 July 1986	Nicomen	Taggers (R)	None	1.27	-	52.0	-	58.2	-
A7008	19 June 1986	Nicomen	20 June 1986	Nicomen	Taggers (R)	None	0.24	-	29.3	-	33.3	-
A7013	19 June 1986	Nicomen	24 July 1986	Zone 2	Sports-fisherman (R)	?	1.20	-	53.5	55.9	68.9	-
A7016	19 June 1986	Nicomen	20 June 1986	Nicomen	Taggers (R)	None	1.10	-	54.5	-	62.6	-
A7023	19 June 1986	Nicomen	17 July 1986	Nicomen	Taggers (R)	None	0.52	-	42.4	-	48.0	-
A7031	19 June 1986	Nicomen	17 July 1986	Nicomen	Taggers (R)	None	0.42	-	38.8	-	43.3	-
A7045	19 June 1986	Nicomen	16 Aug. 1986	Zone 2	Sports-fisherman (R)	?	4.00	-	81.5	86.4	92.6	-
A7058	19 June 1986	Nicomen	18 July 1986	Nicomen	Taggers (R)	None	0.90	-	48.9	-	55.8	-
A7081	16 July 1986	Nicomen	17 July 1986	Nicomen	Taggers (R)	None	0.50	-	42.1	-	48.5	-

R=fish released after recovery
K=fish killed at recovery

Table 3 (cont'd)

Tag no.	Date tagged	Tagging locality	Date recovered	Recovery locality	Recovered by	Fish movement in km	Weight in kg		Fork length in cm		Total length in cm	
							Release	Recovery	Release	Recovery	Release	Recovery
A7086	16 July 1986	Nicomen	18 July 1986	Nicomen	Taggers (R)	None	0.26	-	33.0	-	37.8	-
A7103	17 July 1986	Nicomen	17 July 1986	Nicomen	Taggers (R)	None	0.18	-	30.3	-	34.6	-
A7105	17 July 1986	Nicomen	17 July 1986	Nicomen	Taggers (R)	None	0.45	-	38.4	-	43.5	-
A7107	17 July 1986	Nicomen	18 July 1986	Nicomen	Taggers (R)	None	1.10	-	51.2	-	59.2	-
A7108	17 July 1986	Nicomen	17 July 1986	Nicomen	Taggers (R)	None	0.60	-	44.1	-	49.9	-
A7108	17 July 1986	Nicomen	18 July 1986	Nicomen	Taggers (R)	None	0.60	-	44.1	-	49.9	-
A7112	17 July 1986	Nicomen	17 July 1986	Nicomen	Taggers (R)	None	0.65	-	45.5	-	51.5	-
A7112	17 July 1986	Nicomen	18 July 1986	Nicomen	Taggers (R)	None	0.65	-	45.5	-	51.5	-
A7117	17 July 1986	Nicomen	17 July 1986	Nicomen	Taggers (R)	None	1.10	-	54.0	-	60.2	-
A7121	17 July 1986	Nicomen	18 July 1986	Nicomen	Taggers (R)	None	0.46	-	41.8	-	47.5	-
41406	19 June 1986	Nicomen	17 July 1986	Nicomen	Taggers (R)	None	0.14	-	26.5	-	30.2	-
41411	20 June 1986	Nicomen	17 July 1986	Nicomen	Taggers (R)	None	0.24	-	31.5	-	35.4	-
41501	25 June 1985	Nicomen	24 Aug. 1986	Off Strawberry Island	Sports-fisherman (K)	about 0.5 km	7.75	-	100.3	108.0	111.8	-
41515	25 June 1985	Nicomen	20 June 1986	Nicomen	Taggers (R)	None	1.50	1.66	57.5	60.0	66.5	68.5

R=fish released after recovery
K=fish killed at recovery

Table 3 (cont'd)

Tag no.	Date tagged	Tagging locality	Date recovered	Recovery locality	Recovered by	Fish movement in km	Weight in kg		Fork length in cm		Total length in cm	
							Release	Recovery	Release	Recovery	Release	Recovery
41522	25 June 1985	Nicomen	20 June 1986	Nicomen	Taggers (R)	None	0.14	0.23	28.1	31.6	31.6	35.9
41525*	25 June 1985	Nicomen	18 Sept. 1986	ca 1.6 km above Mission Bridge	Sports-fisherman (R)	Downstream about 10 km	0.74	0.91	50.0	52.0	56.3	-
41535	25 June 1985	Nicomen	10 Apr. 1986	Zone 2	Sports-fisherman (R)	?	0.40	-	38.1	55.9	44.0	-
41577	26 June 1985	Nicomen	21 Sept. 1986	Off Strawberry Island	Sports-fisherman (R)	0.5 km	0.55	-	43.5	-	50.3	-
41680	19 July 1985	Nicomen	1 Sept. 1986	ca 0.8 km below Vedder River mouth	Sports-fisherman (R)	Upstream about 4 km	1.25	*1.36	56.0	-	65.2	68.6
41684	19 July 1985	Nicomen	16 July 1986	Nicomen	Taggers (R)	None	0.20	0.30	31.0	34.2	34.8	38.4
41696	13 Aug. 1985	Nicomen	20 June 1986	Nicomen	Taggers (R)	None	0.32	0.49	36.4	38.2	41.7	43.3
41712	13 Aug. 1985	Nicomen	17 July 1986	Nicomen	Taggers (R)	None	0.10	0.26	28.8	32.6	32.9	37.4
41728	26 Aug. 1985	Nicomen	17 July 1986	Nicomen	Taggers (R)	None	1.54	1.83	60.0	62.0	68.0	69.9
41731	26 Aug. 1985	Nicomen	17 July 1986	Nicomen	Taggers (R)	None	0.50	0.60	42.6	42.9	48.5	49.0
41771	27 Aug. 1985	Nicomen	6 June 1986	ca 4.8 km below Mission Bridge	Commercial fisherman (R)	downstream about 17 km	1.85	-	65.0	-	74.5	-
41792	19 June 1986	Nicomen	17 July 1986	Nicomen	Taggers (R)	None	0.25	0.32	31.4	32.9	35.6	37.6
41796	19 June 1986	Nicomen	17 July 1986	Nicomen	Taggers (R)	None	0.25	0.23	32.0	32.5	36.6	38.0
41905	10 May 1985	Albion	18 Aug. 1985	Zone 2	Sports-fisherman (R)	?	12.71	-	112.0	121.9	-	-
41907	10 May 1985	Albion	23 Oct. 1986	Silverdale area of Fraser River	Commercial fisherman (R)	Upstream about 16 km	7.04	-	92.0	-	-	*122.0

R=fish released after recovery

Table 4. Recoveries in 1986 in the lower Fraser River of white sturgeon released in 1985 and 1986 for which the validity of the tag number is questionable.

Tag no.	Date tagged	Tagging locality	Date recovered	Recovery locality	Recovered by	Fish movement in km	Fork length in cm*	
							Release	Recovery
138	27 June 1986	"Power Line"	16 July 1986	Zone 2	Sports-fisherman (R)	?	88.9	73.7
149	11 July 1986	"Log Dump"	25 July 1986	Zone 4	Sports-fisherman (R)	?	68.6	55.9
623	15 Sept. 1985	"Maria St."	20 March 1986	Zone 2	Sports-fisherman (R)	?	81.3	76.2
655	--	--	1 Nov. 1986	Zone 2	Sports-fisherman (R)	?	--	82.6
4702	--	--	5 Nov. 1986	"Devils Run"	Sports-fisherman (R)	?	--	111.8

*Weight and Total Length not available

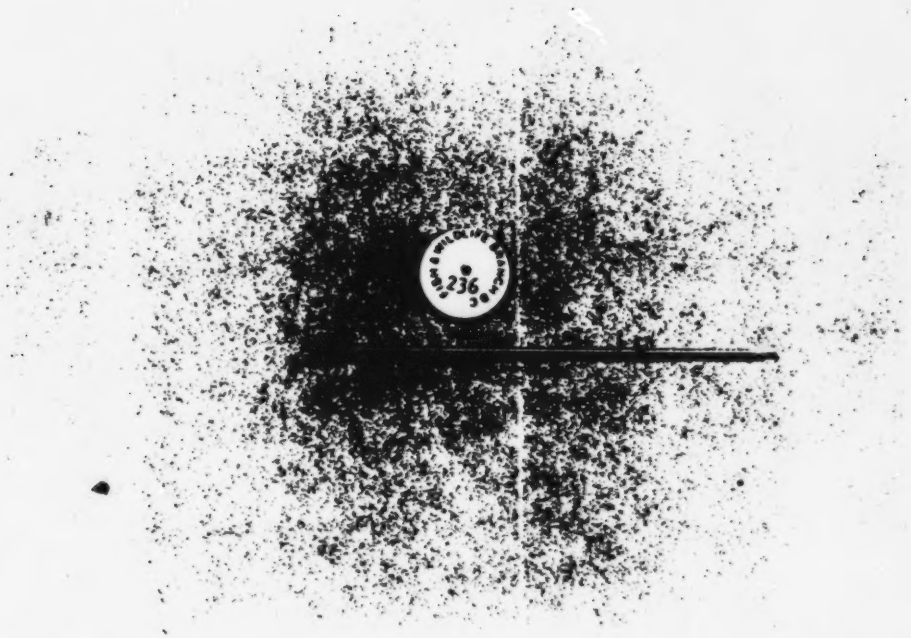


Fig. 1. Petersen disc tag used at 4 tagging sites on the lower Fraser River.

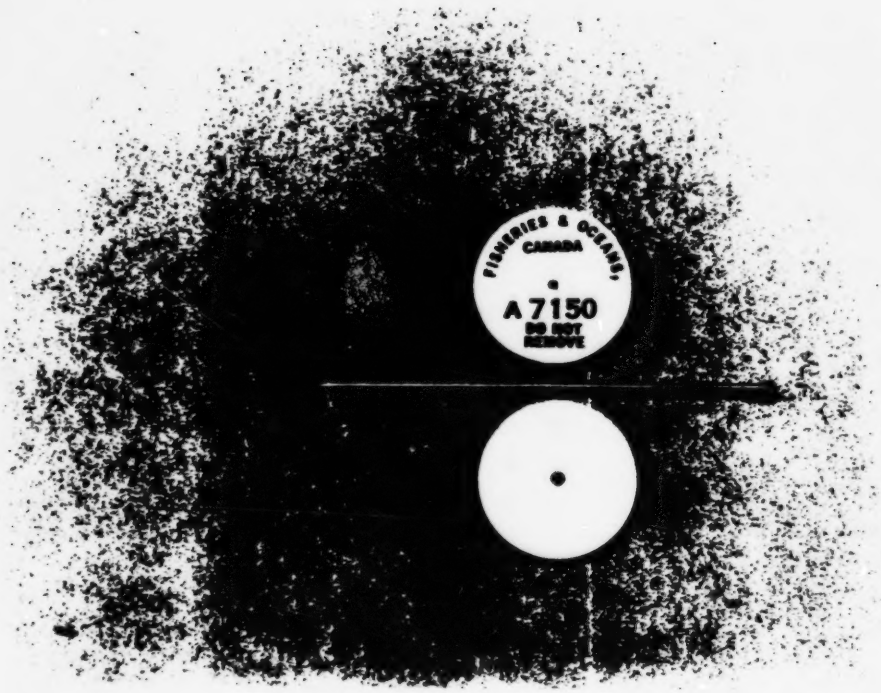


Fig. 2. Large Petersen disc tag used at Nicomen Slough, Fraser River.

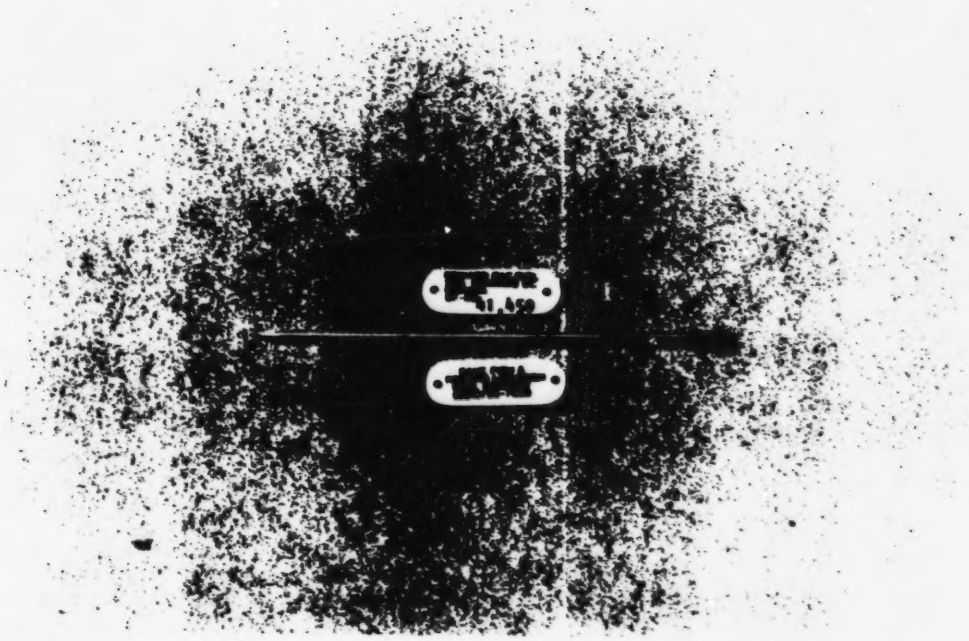
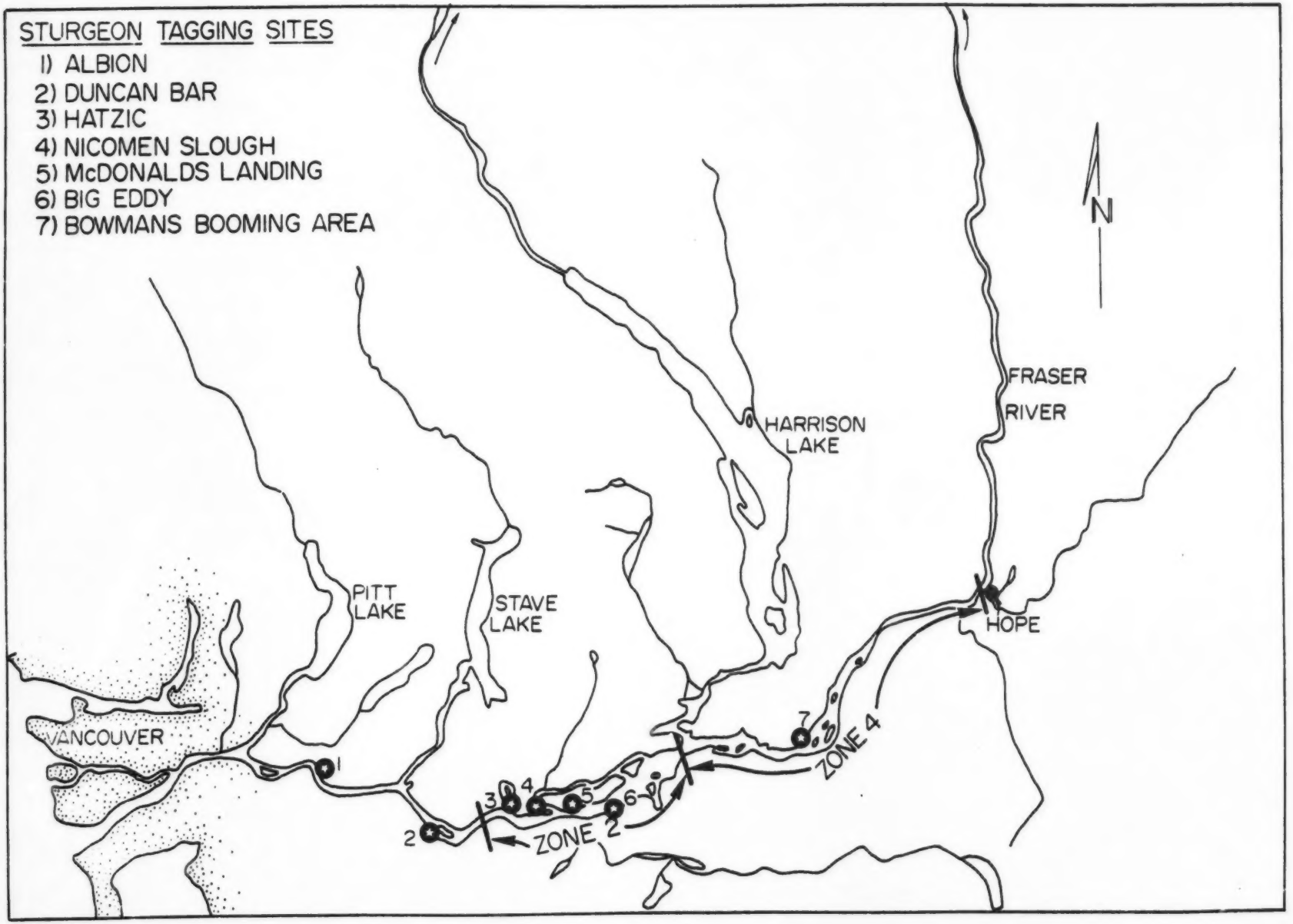


Fig. 3. Tag used on smaller fish at Nicomen Slough, Fraser River.

Fig. 4. Sturgeon tagging sites on the lower Fraser River.


STURGEON TAGGING SITES
1) ALBION
2) DUNCAN BAR
3) HATZIC
4) NICOMEN SLOUGH
5) McDONALDS LANDING
6) BIG EDDY
7) BOWMANS BOOMING AREA
N
FRASER RIVER
HARRISON LAKE
PITT LAKE
STAVE LAKE
HOPE
VANCOUVER
ZONE 4
ZONE 2
1
2
3
4
5
6
7